



## BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – M.Sc.(ANCS)-2024

Course Name – Core Hardware & Troubleshooting

Course Code - MNC17201A (T)

( Semester I )

*Library*  
Brainware University  
398, Ramkrishnapur Road, Barasat  
Kolkata, West Bengal-700125

Full Marks : 40

Time : 2:0 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

### Group-A

(Multiple Choice Type Question)

1 x 10=10

1. Choose the correct alternative from the following :

- (i) Name the primary mechanism used in a mechanical mouse.
  - a) Ball and rollers
  - b) Optical sensor
  - c) Capacitive touch
  - d) Laser technology
- (ii) Select how an optical mouse tracks movement.
  - a) It uses a ball and rollers.
  - b) It utilizes infrared light and sensors.
  - c) It relies on capacitance changes.
  - d) It employs magnetic fields.
- (iii) Trace the meaning of IRQ in the context of computers.
  - a) Interrupt Request Queue
  - b) Integrated Resource Quota
  - c) Interrupt Routing Query
  - d) Interrupt Request
- (iv) Discover FAT in file system terminology.
  - a) File Allocation Table
  - b) File Attachment Test
  - c) File Authorization Token
  - d) File Activity Tracker
- (v) How does the "Form Factor" of a motherboard influence its compatibility with computer cases?
  - a) It controls the speed of data transfer between the motherboard and CPU.
  - b) It determines the motherboard's size and shape, ensuring it fits within specific case sizes.
  - c) It determines the number of USB ports available on the motherboard.
  - d) It affects the motherboard's capacity to support RAM.
- (vi) Identify the primary function of the Southbridge chipset on a motherboard.
  - a) To manage I/O operations and peripheral devices
  - b) To control CPU-to-memory communication
  - c) To supply power to the motherboard
  - d) To render graphics on the display
- (vii) In power supply connectors, choose the voltage the red wire typically represents.
  - a) Ground (0V)
  - b) +5V

d)  $-12V$

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b) UPS and Inverter

d) DVD and SSD

b) Resolution measures screen size

d) Resolution defines screen image clarity

b) 18 Gbps

d) 38 Gbps

(Short Answer Type Questions)

(3)

(3)

(3)

(3)

(3)

(3)

(Long Answer Type Questions)

(5)

(5)

(5)

(5)

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